

Amendment to the Claims:

1. (Cancelled)

2. (Previously Presented) The electrode arrangement in accordance with claim 10 wherein said at least one portion of material is located directly on said first surface.

3. (Cancelled)

4. (Previously Presented) The electrode arrangement in accordance with claim 10 wherein said material is mechanically flexible.

5. (Previously Presented) The electrode arrangement in accordance with claim 10 wherein said material is silicone rubber loaded with conductive material.

6-9. (Cancelled)

10. (Currently Amended) An electrode arrangement comprising:

an electrically conductive fabric having a first surface for application to skin of a mammal; and

5 at least one portion of material which is substantially impermeable to moisture, said material being located on said first surface,

wherein said ~~electrode~~ electrically conductive fabric is integral with a garment.

11-12. (Cancelled)

13. (Previously Presented) A garment comprising:

a wearable article of clothing; and

a fabric electrode arrangement exhibiting a first surface for application to skin of a mammal wearing the article of clothing, the fabric electrode being

5 disposed on an inner surface of the article of clothing with the first surface facing inward, said fabric electrode arrangement including:

at least one portion of material which is substantially impermeable to moisture, said moisture impermeable material being located on said first surface; and

an electrically conductive, moisture permeable fabric portion located
10 on the first surface around the substantially moisture impermeable portion of material.

14. (Cancelled)

15. (Previously Presented) An electrode arrangement comprising:

an electrically conductive fabric portion with a first surface which contacts a wearer's skin directly;

5 a moisture impermeable, electrically conductive layer affixed to the first surface of the electrically conductive fabric to contact the wearer's skin directly, such that said layer promotes perspiration which reduces skin-to-electrode contact resistance and such that the electrically conductive fabric absorbs and dissipates perspiration while permitting the skin to breathe to promote user comfort.

16. (Previously Presented) The electrode arrangement in accordance with claim 15 wherein the moisture impermeable, electrically conductive layer contacts the skin directly with only perspiration functioning to reduce the skin-to-electrode contact resistance.

17. (Previously Presented) The electrode arrangement in accordance with claim 15 wherein the moisture impermeable, electrically conductive layer and the electrically conductive fabric are both flexible.

18. (Previously Presented) The electrode arrangement in accordance with claim 15 wherein the moisture impermeable, electrically conductive layer includes silicone rubber filled with a conductive material.

19. (Previously Presented) The electrode arrangement in accordance with claim 18 wherein the conductive material includes one of carbon and silver.

20. (Previously Presented) The electrode arrangement in accordance with claim 15 wherein the electrically conductive fabric is knitted or woven.

21. (Previously Presented) The electrode arrangement in accordance with claim 20 wherein the electrically conductive fabric is knitted or woven from electrically conductive fibers and non-conductive fibers.

22. (Previously Presented) A wearable article comprising:
a garment made of non-electrically conductive fabric; and
one or more electrode arrangements in accordance with claim 15,
positioned on the garment to contact the wearer's skin.

23. (Previously Presented) A textile article comprising:
a non-electrically conductive fabric; and
one or more electrode arrangements in accordance with claim 15, in
which the electrically conductive fabric portion is supported by the non-electrically
5 conductive fabric and positioned to contact the wearer's skin.

24. (Previously Presented) The garment in accordance with claim 13 wherein the moisture impermeable portion is electrically conductive and flexible.

25. (Previously Presented) The garment in accordance with claim 24 wherein the fabric electrode arrangement is free of electrically conductive gel with only perspiration induced by the moisture impermeable portion acting as a sole skin-to-electrode contact resistance reducing agent.